

INSIDE SFI:

ON AND OFF THE COWAN CAMPUS

<http://www.santafe.edu/events/update/insidesfi.php>

Bowles Teaches Albuquerque Elementary Class on Global Hunger and Water Scarcity

Sa m B ow les (SFI Research Professor) spent the morning of February 8 at The Family School in Albuquerque working with a class of 5th to 8th graders who are devoting the year to a project on global poverty, hunger, and lack of water. He began with his own childhood in New Delhi and the question that led him to take up economics and has haunted him since: “seeing that people are so similar around the world, why are our economic fortunes so different?” Each member of the class had prepared questions, ranging from the role of geography in explaining poverty to the prospects for success in reaching the UN’s Millennium Goals. A lively discussion followed.

Epstein Authors Book

Jo sh ua M. Ep ste in (Senior Fellow in Economic Studies at the Brookings Institution, and former SFI External Faculty) has authored a book entitled, *Generative Social Science, Studies in Agent-Based Computational Modeling*, Princeton University Press, 2006.

March Public Lecture

Sc ott E . P age (Professor of Complex Systems, Political Science, and Economics at the University of Michigan and SFI External Faculty member) will present a Public Lecture on **We dn es da y, M arch 14 , 2 007 at 7:3 0 p .m.** , at the James A. Little Theater. He is author of *The Difference* and coauthor of *Complex Adaptive Social Systems* (Princeton University Press). The title of the lecture is “The Difference: How the Power of Diversity Creates Better Groups, Firms, Schools and Societies.” For more information, please see <http://www.santafe.edu/events/talks-public-lectures.php>

BUSINESS NETWORK NEWS

<http://www.santafe.edu/events/update/businessnetwork.php>

SFI Co-hosts Virtual Topical Meeting With 300 Avatars

SFI co-hosted its first virtual meeting, entitled “Collective Intelligence in Synthetic Environments” via Second Life with co-sponsors Cisco Systems and Stanford University’s Media X. In addition to a full roster of speakers onsite, including **Lei ght on Rea d** (SFI Trustee), **Ch rist ia n Re na ud** (Cisco Systems), **Geoffre y We st** (SFI), and **Dav id Ack ley** (UNM), there were two remote presenters, **Th om as Mal one** (MIT) and **Al ph B in gh am** (InnoCentive). Approximately 60 attendees participated in Santa Clara and over 300 avatars participated via Second Life. The meeting was held February 20, 2007, in Santa Clara, CA.

SFI News Now Available Via Rss Feed

Beginning March 1, SFI News will be available via RSS (Really Simple Syndication) Feed to your computer or PDA. This service allows you to subscribe to SFI news and read it in a variety of ways, including having it delivered directly to your desktop. Please visit us online to view and subscribe to the SFI news feed: <http://www.santafe.edu/news.php>

For details on how to subscribe from your particular platform, please visit the comprehensive RSS tutorial online at <http://www.wizard-creek.com/rss/tutorial/rss-tutorial-outline.htm> or email webmaster@santafe.edu if you have any questions.

2007 Topical Meeting Schedule

March 16 – “Diverse Teams, Wise Crowds, and Informed Experts” with Scott Page and Michael Mauboussin, Chicago, IL (venue TBA)

April 16 -20 – Agent Based Modeling and Simulation Course, co-hosted by and held at Argonne National Laboratory, Woodridge, IL

TBD – “Flows on Distributed Networks” with David Krakauer (SFI Research Professor), co-hosted by Boeing, Seattle, WA

September 6-7 – “Conflict, Robustness and Creativity” with Jessica Flack (SFI Research Fellow), co-hosted by CNO-SSG, Washington, DC

September 27 – Adaptive and Resilient Computer Security Workshop (ARCS) 2007 co-hosted by BT, Imperial College, London

November 1 -2 – “Diversity Collapse: How, When and What are the Consequences?” Annual Business Network and Board of Trustees’ Symposium, held at Bishop’s Lodge, Santa Fe, NM.

PUBLICATIONS

<http://www.santafe.edu/events/update/publications.php>

Refereed Literature

<http://www.santafe.edu/events/update/publications.php>

Apricio, J. P., and **M. Pascual**. “Building Epidemiological Models from R-0: An Implicit Treatment of Transmission in Networks.” *Proceedings of The Royal Society B—Biological Sciences* 274 (1609) (2007): 505-512.

Enquist, B. J., **A. P. Allen**, **J. H. Brown**, **J. F. Gilloly**, **A. J. Kerkhoff**, **K. J. Niklas**, **C. A. Price**, and **G. B. West**. “Does the Exception Prove the Rule?” *Nature* 445(7127) (2007): 9-10.

Erwin, D. H.. “Disparity: Morphological Pattern and Developmental Context.” *Palaeontology* 50(Pt 1) (2007): 57-73.

Fernandez, P., and **R. V. Solé**. “Neutral Fitness Landscapes in Signalling Networks.” *Journal of The Royal Society Interface* 4(12) (2007) 41-47.

Fischer, W., S. Perkins, J. Theiler, T. Bhattacharya, K. Yu, R. Funkhouser, C. Kuiken, B. Hayes, N. L. Lefwin, W. D. Walker, B. H. Han, and B. T. Korber. “Polyvalent Vaccines for Optimal Coverage of Potential T-Cell Epitopes in Global HIV-1 Variants.” *Nature Medicine* 13(1) (2007): 100-106.

Gintis, H. “The Emergence of a Price System from Decentralized Bilateral Exchange.” *Contributions to Theoretical Economics* 6(1) (2006).

Savage, V. M., and G. B. West. “A Quantitative, Theoretical Framework for Understanding Mammalian Sleep.” *Proceedings of the National Academy of Sciences of the United States of America* 104(3) (2007): 1051-1056.

Shubik, M., and E. Smith. “Structure, Clearinghouses and Symmetry.” *Economic Theory* 30(3) (2007): 587-597.

Library Acquisitions

For a list of recent purchases by the SFI Library, please see <http://www.santafe.edu/events/update/library.php>

CALENDAR OF EVENTS

<http://www.santafe.edu/events/calendar.php>

March 1-3, 2007

Working Group — “The Continued Study of Language Acquisition and Evolution,” organized by **John Holland** (SFI & University of Michigan, Ann Arbor). Held at the Santa Fe Institute.

March 1-4, 2007

Workshop — “Deception: Methods, Motives, Contexts & Consequences,” organized by **Brooke Harrington** (Brown University). Held at the Santa Fe Institute.

March 14, 2007

Public Lecture — “The Difference: How the Power of Diversity Creates Better Groups, Firms, Schools and Societies,” **Scott E. Page** (SFI & University of Michigan - Complex Systems, Political Science & Economics) organized by **Geoffrey Richardson** (SFI). Held at the James A. Little Theater, New Mexico School for the Deaf.

April 18, 2007

Public Lecture — “Inevitable Life?” D. Eric Smith (SFI - Frontiers in Integrative Biological Research Program) organized by **Geoffrey Richardson** (SFI). Held at the James A. Little Theater, New Mexico School for the Deaf.

May 4-5, 2007

Meeting — “Annual Science Board Meeting and Symposium,” organized by **Geoffrey West** and

Chris Wood (SFI), and Science Board Co-Chairs **David Campbell** (Boston University) and **Simon Levin** (Princeton University). Held at the Santa Fe Institute.

May 9, 2007

Public Lecture — “New Mexico’s Renewable Energy Future,” **Ben Lucie** (Los Alamos National Laboratory; Director, New Mexico Coalition for Clean Affordable Energy) organized by **Ginger Richards** (SFI). Held at the James A. Little Theater, New Mexico School for the Deaf.

MARCH VISITORS AND ARRIVALS

<http://www.santafe.edu/events/monthlyvisitors.php>

Ganesh Bagler (3/1-25), Mathematical Modeling and Computational Biology Group, Centre for Cellular and Molecular Biology. Purpose of visit: International Fellow. SFI host: Shannon Larsen.

Richard Blew (3/1-4), Cognitive Computer Science Research Group, UCSD. Purpose of visit: Research Collaboration. SFI host: David Krakauer.

Jim Brown (3/2-4), Department of Biology, University of New Mexico. Purpose of visit: Research Collaboration. SFI host: Geoffrey West.

Brian Enquist (3/1-3), Ecology and Evolutionary Biology, University of Arizona. Purpose of visit: Research Collaboration. SFI host: Geoffrey West.

John Geanakoplos (3/10-17), Cowles Foundation for Research in Economics, Yale University. Purpose of visit: External Faculty. SFI host: Chris Wood.

Theo Geisel (3/9-10) Theoretical Physics, University of Gottingen. Purpose of visit: Research Collaboration. SFI host: Doyne Farmer.

Ray Jackendoff (3/21-24), Center for Cognitive Studies, Tufts University. Purpose of visit: Research Collaboration. SFI host: Chris Wood.

Ann Kinzig (3/12-14), School of Life Sciences, Arizona State University. Purpose of visit: Research Collaboration. SFI host: Simon Levin.

Simon Levin (3/11-16), Department of Ecology and Evolutionary Biology, Princeton University. Purpose of visit: Research Collaboration. SFI host: Geoffrey West.

Pedraic Monaghan (3/5-9), Psychology, University of York. Purpose of visit: Research Collaboration. SFI host: Morten Christiansen.

Scott Page (3/13-15), Political Science and Economics/Center for Study of Complex Systems, University of Michigan. Purpose of visit: Education. SFI host: Ginger Richardson.

Charles Perrings (3/12-14), Global Institute of Sustainability, Arizona State University. Purpose of visit: Research Collaboration. SFI host: Simon Levin.

Martin Shubik (3/6-4/3), Yale School of Management, Yale University. Purpose of visit: External Faculty. SFI host: Chris Wood.

Nikolaos Stilianakis (3/31-4/13), Joint Research Centre, European Commission. Purpose of visit: Research Collaboration. SFI host: Alan Perelson.

James Trefil (3/11-12), Clarence J. Robinson Professor of Physics, George Mason University. Purpose of visit: Education. SFI host: Ginger Richardson.

Peter Turc hin (3/7-14), Ecology and Evolutionary Biology, University of Connecticut. Purpose of visit: Research Collaboration. SFI host: David Krakauer.

Mark Turner (3/11-16), Cognitive Science, Case Western Reserve University. Purpose of visit: Colloquia. SFI host: David Krakauer.

Gabriela Vaglica (3/9-27), Dipartimento di Fisica e Tecnologie Relative (DiFTeR), Universita degli Studi di Palermo. Purpose of visit: Research Collaboration. SFI host: Doyne Farmer.

The conversations among SFI's founders in the early 1980s envisioned SFI on a Rockefeller University model "a research institute offering accredited graduate education. "Teaching would be accomplished mostly in seminars and short series of lectures, but, above all, by means of apprenticeship and research," wrote Murray Gell-Mann in "Emerging Syntheses in Science," the volume memorializing the Institute's founding workshops. At the time, Gell-Mann estimated that "three units" (a unit being \$100 million) would be sufficient as an endowment to get the Institute off the ground. Unfortunately, suc